1061 South 800 East, Orem, Utah 84097 • Telephone: 801 229-2800 • Fax: 801 224-0355

Overview

Vantage's 36V and 24V DIN power supplies have been tested against very stringent power standards. These DIN power supplies produce "quiet," reliable power. The DIN Controller must only be powered with one of these models supplied by Vantage:

- A 130W, 36VDC part # ***PSU36-DIN***
- A 60W, 24VDC* part # ***ACPDXXSM2***.

Power supplies must be mounted to 35mm DIN rail, in any standard DIN Enclosure *compatible* with the maximum power dissipated. Before using, pull out the lithium battery tab insulator on the DIN Controller. Connect the positive (+) output of the power supply to the 24V/36V screw terminal on the Controller and the negative side to one of the ground terminals. The Controller and Power Supply must be earth grounded** (see *Installations*).

***NOTE:** Another (*Vantage Certified*) 96W, 24VDC power supply is also available in the European region from Vantage EMEA, part number **DIN POWER-MC.**
Visit, *www.vantage-emea.com*.

****NOTE:** The earth ground on the DIN Controller and power supply should be the *ONLY* earth ground connection in *this* DIN Controller's immediate system. Controller Bus (connections between controllers) connections are isolated so a new earth ground reference for each Controller is normal. If using Ethernet to connect multiple controllers, isolation is inherently part of the Ethernet design.

Carefully follow the ***Wiring Diagrams*** below. *DO NOT USE ANY OTHER POWER SUPPLY WITH DIN CONTROLLERS.*

- Vantage recommends a *minimum* 0.75mm^2 / 18AWG wire, stranded, between the power supply and the controller.
- Recommended: use wires no longer than 1 meter (39 inches) between the power supply and the controller.

PSU36-DIN 36VDC Power Supply Specifications

36V PSU36-DIN	
Description	**Specification**
Dimensions HWD	4.375" x 7.5" x 1.9" 111mm x 191mm x 48mm
Weight	1.04 kg (2.3 lbs.)
Mounting	35 mm DIN Rail (EN 50 022: 1977)
Input Power Requirement	AC 100-240V-2.8A 50/60 HZ
Output Power	36V DC 3.5A 130W Max
Recommended Wire for terminal screw connections	Stranded, (minimum) 0.75 – 3.31mm^2 18AWG to 12AWG
Recommended Max. wire Length between PSU36-DIN and IC-DIN	1 meter
Stripping Size	Strip Wire 6.5mm / 0.25 inch.
Ambient Operating Temperature	0-40°C / 32-104°F
Ambient Operating Humidity	5-95% non-condensing
Cooling	Convection
CE Certified	YES

CAUTION: 36V stations have a (36) symbol on the Serial Number sticker. Any station, not displaying this symbol, should not be connected to a 36Volt Station Bus. A DIN Controller's station bus power is the same voltage as the controller's power supply.

ACPDXXSM2 24VDC Power Supply Specifications

24V ACPDXXSM2	
Description	**Specification**
Dimensions HWD	3.58" x 2.79" x 2.20" 91mm x 71mm x 56mm
Weight	250 g
Mounting	35 mm DIN Rail (EN 50 022: 1977)
Input Power Requirement	AC 100-240V-1.22-0.66A 50/60 HZ
Output Power	24V DC 2.5A 60W Max
Recommended Wire for terminal screw connections	Stranded, (minimum) 0.75 – 3.31mm^2 18AWG to 12AWG
Recommended Max. wire Length between ACPDXXSM2 and IC-DIN	1 meter
Stripping Size	Strip Wire 6.5mm / 0.25 inch.
Ambient Operating Temperature	0-40°C / 32-104°F
Ambient Operating Humidity	5-95% non-condensing
Cooling	Convection
CE, UL and CUL Listed	Yes

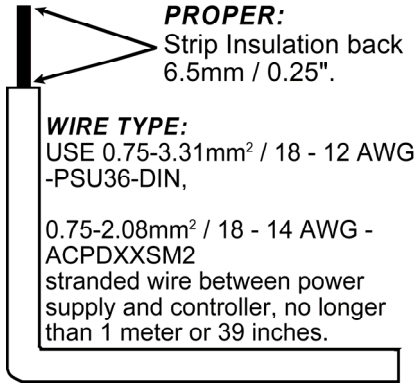
Other DIN Product Install Sheets

- DIN_8 Channel 10 Amp Relay Station_RS8-DIN_install.pdf
- DIN_CIS10-DIN Contact Input Station_install.pdf
- DIN_Controller Power Supply_install.pdf
- DIN_ELECTRONIC DIMMER STATION - ELDS4-1-DIN_install.pdf
- DIN_IC-DIN InFusion Controller_install.pdf
- DIN_Low Voltage Output Station_LVOS-0-10-PWM-DIN_install.pdf
- DIN_LVRS8-DIN_LVRS_install.pdf
- DIN_Master Controller_install.pdf
- DIN_Relay Station Lighting - DIN_RS8-L-DIN_install.pdf
- DIN_STANDARD DIMMER STATION - SLDS4-DIN_install.pdf
- DIN_ULDS1-DIN_install.pdf

Installation

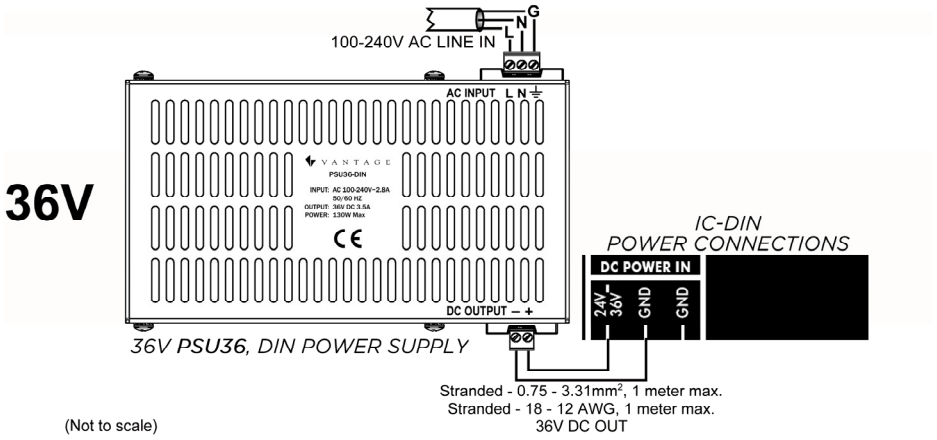
Installation of Vantage products should be performed or supervised by a *Certified Vantage Installer.* The *PSU36-DIN*, *ACPDXXSM2*, or *DIN POWER-MC* must be mounted on standard 35 mm DIN Rail within any standard DIN Enclosure compatible with the maximum power dissipated. All connections to the power supply are wired to screw terminal connectors.

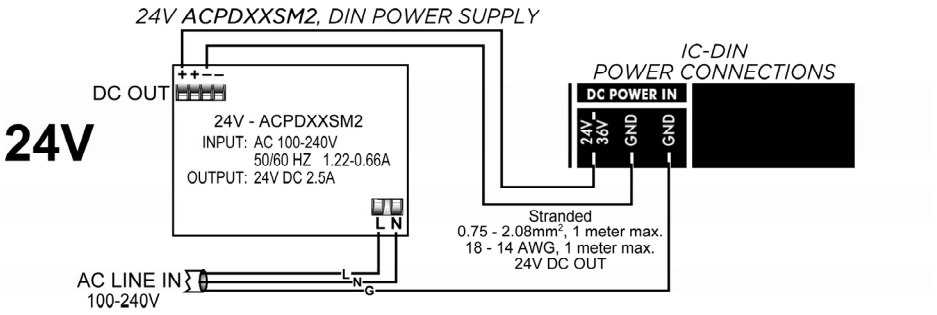
Important
To avoid possible shorting when connecting the power supply to the controller, strip the wire insulation 6.5mm / 0.25" as illustrated.

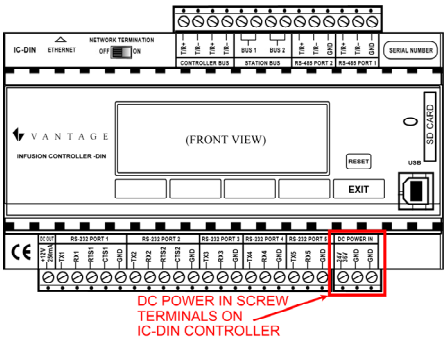


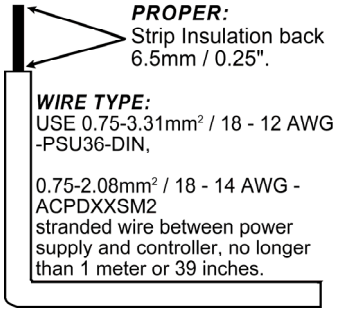
Wiring Diagrams

In the examples below, please note that the 36V PSU36 model has an earth connection which is passed through power supply to the controller. This makes it unnecessary to connect the second GND screw terminal on the IC-DIN's, DC POWER IN screw terminal. The 24V power supply uses both GND screw terminals on the IC-DIN's, DC POWER IN screw terminal as illustrated.









NOTE: Another (*Vantage Certified*) 96W, 24VDC power supply, **DIN POWER-MC,** is also available in the European region from Vantage EMEA; visit, *www.vantage-emea.com*.

PSU36 Multiple Views